

Surgical Emergencies in Pregnancy

– A Retrospective Analysis of Six Surgical Departments and Review of Literature

Octavian Andronic^{1,2}, Laura Stănescu¹, Tamaş Talpai^{3,4}, Răzvan Albu^{3,4}, Amalia Voinea^{3,4}, Tibiana Negru^{3,4}, Cătălin Alexandru Pîrvu^{3,4}, Stelian Pantea^{3,4}, Alin Mihai Vasilescu^{5,6}, Costel Bradea^{5,6}, Cristian Lupascu^{5,6}, Cosma Catalin^{7,8}, Alexandru Szanto^{7,8}, Călin Molnar^{7,8}, Daniel Preda^{9,10}, Emil Moraru^{9,10}, Ştefan Paitici^{9,10}, Ştefania Tudorache^{9,10}, Valeriu Şurlin^{9,10}, Nikolaos Zygouropoulos¹¹, Bogdan Socea^{1,11}, Mihai Dimitriu^{1,11}, Alexandru Carâp^{1,11}, Dan Nicolae Păduraru^{1,2}, Ion Daniel^{1,2}, Alexandra Bolocan^{1,2}

¹Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

²Department of Surgery, University Emergency Hospital of Bucharest, Romania

³Victor Babeş University of Medicine and Pharmacy, Timișoara, Romania

⁴Department of Surgery, Pius Brînzeu Timiș County Emergency Clinical Hospital, Timișoara, Romania

⁵Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania

⁶Department of Surgery, Saint Spiridon County Hospital, Iași, Romania

⁷George Emil Palade University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș, Romania

⁸Department of Surgery, Emergency County Hospital Targu Mureș, Romania

⁹University of Medicine and Pharmacy of Craiova, Romania

¹⁰Department of Surgery, Clinical Emergency Hospital of Craiova, Romania

¹¹Department of Surgery, Saint Pantelimon Emergency Hospital, Bucharest, Romania

Abstract

Background: Surgical emergencies during pregnancy, although rare, present critical challenges for medical professionals, requiring a careful balance between the immediate needs of the mother and the potential risks to the fetus.

Material and Methods: This retrospective multicentric study evaluates the diagnostic characteristics and management strategies for non-obstetric acute abdomen in pregnant women admitted to general surgery departments across six clinics in Romania from 2017 to 2022.

Results: The study analyzed 70 cases, focusing on diagnostic processes, management approaches, and outcomes. Findings revealed that while surgical intervention was predominant, conservative management was also significant. Acute appendicitis and acute cholecystitis were the most common emergencies.

Conclusions: The study highlights the necessity of a nuanced approach in diagnosis and tailored anesthetic management to ensure favorable outcomes, emphasizing the importance of timely intervention and the need for further research to develop standardized guidelines.

Keywords: non-obstetric emergencies, acute abdomen, pregnancy, surgical intervention